

Message Text

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ACTION CU-04

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TAGS: TGEN, SP

SUBJ: CU REQUEST FOR COMMENT COOPERATIVE S & T PROJECTS

REF: HOLLY - CLEMENT TELCON 9 OCTOBER

1. PROJECTS CAN LEGITIMATELY BE VALUE-RATED IN TERMS OF INCREASE IN SPANISH RESEARCH CAPABILITY OR EVEN BETTER FOR US IN TERMS OF RESEARCH YIELD OF BENEFIT TO BOTH SIDES. ALL PROJECTS, AT LEAST POTENTIALLY, CONTRIBUTE TO FORMER; THIS TELEGRAM SINGLES OUT A FEW OF THE LATTER.

2. URBAN SOLID WASTE DISPOSAL PROJECT BETWEEN U.S. BUREAU MINES AND NATIONAL ENTERPRISE ADARO OF MINISTRY OF INDUSTRY HAS FOCUSED ON PROCESSING FOR ECONOMIC RECOVERY OF URBAN SOLID WASTES. LIVELY EXCHANGE OF EXPERIENCE AND ENGINEERING KNOW-HOW HAS BROUGHT THIS PROJECT TO THE PRE-COMMERCIAL STAGE AND PRODUCED S SPANISH PATENT (IN WHICH THE BUREAU HAS RIGHTS) WHICH IS NOW BEING LICENSED IN 34 OTHER COUNTRIES.

3. OCEANOGRAPHIC STUDIES IN THE GALICIAN ESTUARIES: THE "RIAS" OF NORTHWEST SPAIN ARE AMONG THE WORLD'S GREATEST
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PRODUCERS OF COMMERCIALY-VALUABLE SHELLFISH, ESPECIALLY

OF THE EDIBLE MUSSEL. ONE ESTUARY ALONE, THAT OF AROSA, PRODUCES A COMMERCIAL CROP OF APPROXIMATELY 130-160 THOUSAND METRIC TONS A YEAR. THE WOODS HOLE OCEANOGRAPHIC INSTITUTION OF MASSACHUSETTS HAS BEEN COOPERATING WITH THE SPANISH INSTITUTE OF OCEANOGRAPHY IN RESEARCH ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL BASES OF THIS PRODUCTIVITY WHICH IS LEADING TO A BETTER UNDERSTANDING OF THE CONDITIONS NECESSARY FOR SUCCESSFUL FARMING OF SHELLFISH IN THIS AND OTHER ESTUARIES AROUND THE WORLD.

4. NON-LINEAR HYBRID FILTERING IS THE ESOTERIC TITLE (SHORT FORM) OF A RESEARCH PROJECT IN AUTOMATIC SYSTEMS CONTROL FOR FLOW PHENOMENA, WHETHER OF TRAFFIC OR INDUSTRIAL PRODUCTION LINES, BETWEEN THE UNIVERSITY OF SOUTHERN CALIFORNIA AND THE POLYTECHNIC UNIVERSITY OF BARCELONA. SOPHISTICATED U.S. COMPUTER EQUIPMENT HAS SUBSTANTIALLY ENHANCED THE CAPABILITY OF THE STRONG BARCELONA GROUP AND FEEDBACK FROM BARCELONA AS WELL AS SHARED TRIALS IN CALIFORNIA GIVE PROMISE OF INCREASED APPLICABILITY TO REAL-LIFE SITUATIONS IN WHICH CONTROL OF FLOW IS TIME-CRITICAL.

5. THE INSTITUTE OF MOLECULAR BIOLOGY WAS INAUGURATED IN MADRID THIS MONTH. THE U.S. CONTRIBUTION WAS NEARLY ENTIRELY IN THE FORM OF ADVANCED U.S. LABORATORY EQUIPMENT, BUT THIS MAINTAINED THE INTEREST OF NOBEL-LAUREATE SEVERO OCHOA, SPANISH-TRAINED AND A PRODUCTIVE MEMBER OF THE U.S. SCIENTIFIC COMMUNITY DURING NEARLY ALL HIS PROFESSIONAL CAREER, IN THE PROMOTION OF BASIC BIOLOGICAL RESEARCH IN SPAIN CHARACTERIZED BY STRONG TIES TO THE U.S.

6. WATER RESOURCES SYSTEMS MANAGEMENT IS THE TITLE OF A PROJECT CONDUCTED JOINTLY BY THE U.S. BUREAU OF RECLAMATION AND THE SPANISH CENTER FOR HYDROGRAPHIC STUDIES ON THE LIMITING RESOURCE FOR AGRICULTURAL AND INDUSTRIAL DEVELOPMENT IN MUCH OF SPAIN AND IN THE U.S. SOUTHWEST. BENEFITS TO U.S. PLANNING ARE ALREADY BEING DERIVED FROM THE EXTENSIVE AND ANCIENT SPANISH EXPERIENCE, AND AS THE JOINT STUDIES CONTINUE MUCH MORE CAN BE EXPECTED.

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7. AMONG THE TEN AGRICULTURAL RESEARCH PROJECTS, THE MOST SIGNIFICANT TO U.S. INTERESTS IS COOPERATIVE RESEARCH ON ANIMAL DISEASES, PARTICULARLY AFRICAN SWINE FEVER WHICH CONSTITUTES A SERIOUS THREAT TO U.S. LIVESTOCK BUT IS NOT YET IN THE U.S.

8. THE MULTIDISCIPLINARY STUDY ON MERCURY IN THE

ENVIRONMENT AND HUMAN POPULATION OF ALMADEN (SPAIN)
CONDUCTED BY EPA, THE UNIVERSITY OF ROCHESTER MEDICAL
SCHOOL AND THE OAK RIDGE NATIONAL LABORATORY IN COOPERATION
WITH THE MINES OF ALMADEN AND THE SPANISH PUBLIC HEALTH
SERVICE OFFERS A UNIQUE OPPORTUNITY TO STUDY THE
DISTRIBUTION OF MERCURY IN VARIOUS FORMS EMANATING FROM
A POINT SOURCE, THE MINE AND ITS SMELTER, OVER AT LEAST
TWO THOUSAND YEARS.

9. OTHER PROJECTS ARE EITHER TOO NEW OR TOO SMALL TO
PROVIDE INDICATIONS AS TO SCIENTIFIC, TECHNOLOGICAL OR
ECONOMIC YIELD. THEY ARE UNDER CONSTANT EVALUATION BY
EMBASSY AND NSF WITH A VIEW TO EVENTUAL INCREASE OF
SUPPORT, MODIFICATION OF OBJECTIVES OR TERMINATION.
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